D: TROUBLE CODE 21 — ABNORMAL ABS SENSOR (OPEN CIRCUIT OR INPUT VOLTAGE TOO HIGH) (FRONT RH) —

NOTE:
For the diagnostic procedure, refer to TROUBLE CODE 27. <Ref. to ABS-40, TROUBLE CODE 27 — ABNORMAL ABS SENSOR (OPEN CIRCUIT OR INPUT VOLTAGE TOO HIGH) (REAR LH) —, Diagnostics Chart with Diagnosis Connector.>

E: TROUBLE CODE 23 — ABNORMAL ABS SENSOR (OPEN CIRCUIT OR INPUT VOLTAGE TOO HIGH) (FRONT LH) —

NOTE:
For the diagnostic procedure, refer to TROUBLE CODE 27. <Ref. to ABS-40, TROUBLE CODE 27 — ABNORMAL ABS SENSOR (OPEN CIRCUIT OR INPUT VOLTAGE TOO HIGH) (REAR LH) —, Diagnostics Chart with Diagnosis Connector.>

F: TROUBLE CODE 25 — ABNORMAL ABS SENSOR (OPEN CIRCUIT OR INPUT VOLTAGE TOO HIGH) (REAR RH) —

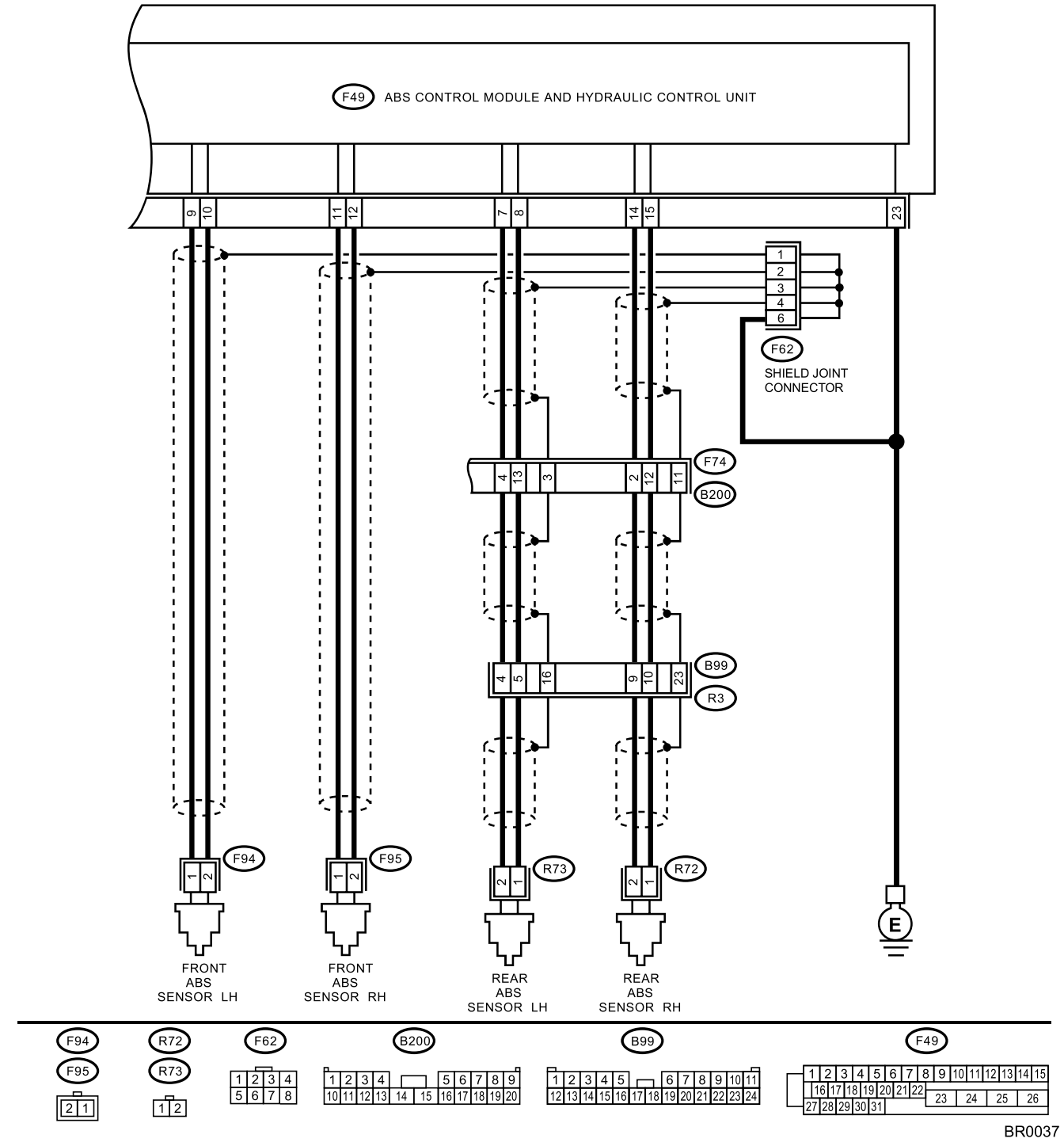
NOTE:
For the diagnostic procedure, refer to TROUBLE CODE 27. <Ref. to ABS-40, TROUBLE CODE 27 — ABNORMAL ABS SENSOR (OPEN CIRCUIT OR INPUT VOLTAGE TOO HIGH) (REAR LH) —, Diagnostics Chart with Diagnosis Connector.>

G: TROUBLE CODE 27 — ABNORMAL ABS SENSOR (OPEN CIRCUIT OR INPUT VOLTAGE TOO HIGH) (REAR LH) —

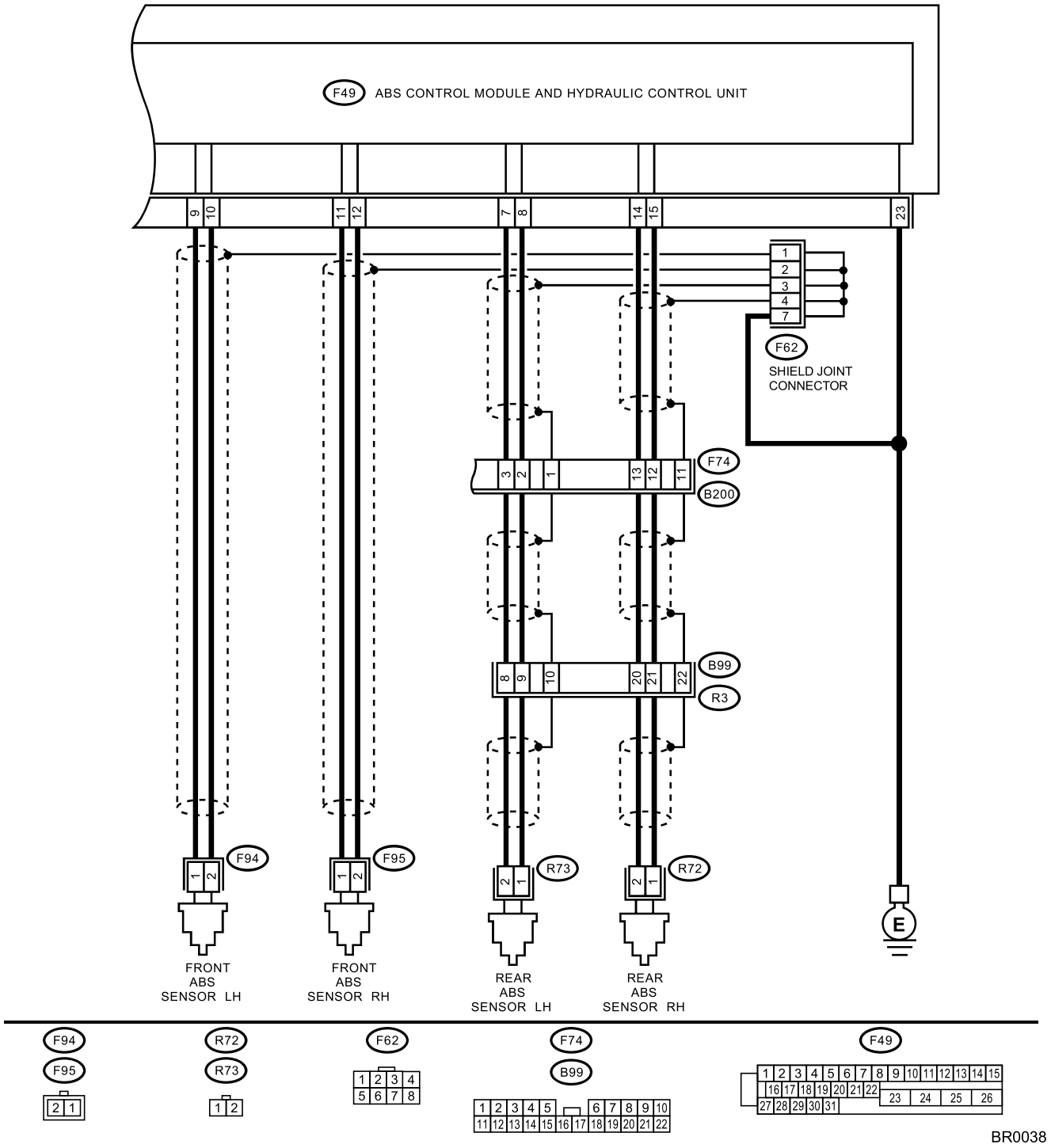
DIAGNOSIS:
- Faulty ABS sensor (Broken wire, input voltage too high)
- Faulty harness connector

TROUBLE SYMPTOM:
- ABS does not operate.

WIRING DIAGRAM: LHD MODEL



WIRING DIAGRAM: RHD MODEL



DIAGNOSTICS CHART WITH DIAGNOSIS CONNECTOR

	Step	Check	Yes	No
1	**CHECK ABS SENSOR.** 1)Turn ignition switch to OFF. 2)Disconnect connector from ABS sensor. 3)Measure resistance of ABS sensor connector terminals. ***Terminal*** ***Front RH No. 1 — No. 2:*** ***Front LH No. 1 — No. 2:*** ***Rear RH No. 1 — No. 2:*** ***Rear LH No. 1 — No. 2:***	Is the resistance between 1 and 1.5 kΩ?	Go to step **2.**	Replace ABS sensor. Front: <Ref. to ABS-14, Front ABS Sensor.> Rear: <Ref. to ABS-17, Rear ABS Sensor.>
2	**CHECK BATTERY SHORT OF ABS SENSOR.** 1)Disconnect connector from ABSCM&H/U. 2)Measure voltage between ABS sensor and chassis ground. ***Terminal*** ***Front RH No. 1 (+) — Chassis ground (–):*** ***Front LH No. 1 (+) — Chassis ground (–):*** ***Rear RH No. 2 (+) — Chassis ground (–):*** ***Rear LH No. 2 (+) — Chassis ground (–):***	Is the voltage less than 1 V?	Go to step **3.**	Replace ABS sensor. Front: <Ref. to ABS-14, Front ABS Sensor.> Rear: <Ref. to ABS-17, Rear ABS Sensor.>
3	**CHECK BATTERY SHORT OF ABS SENSOR.** 1)Turn ignition switch to ON. 2)Measure voltage between ABS sensor and chassis ground. ***Terminal*** ***Front RH No. 1 (+) — Chassis ground (–):*** ***Front LH No. 1 (+) — Chassis ground (–):*** ***Rear RH No. 2 (+) — Chassis ground (–):*** ***Rear LH No. 2 (+) — Chassis ground (–):***	Is the voltage less than 1 V?	Go to step **4.**	Replace ABS sensor. Front: <Ref. to ABS-14, Front ABS Sensor.> Rear: <Ref. to ABS-17, Rear ABS Sensor.>
4	**CHECK HARNESS/CONNECTOR BETWEEN ABSCM&H/U AND ABS SENSOR.** 1)Turn ignition switch to OFF. 2)Connect connector to ABS sensor. 3)Measure resistance between ABSCM&H/U connector terminals. ***Connector & terminal*** ***Trouble code 21 / (F49) No. 11 — No. 12:*** ***Trouble code 23 / (F49) No. 9 — No. 10:*** ***Trouble code 25 / (F49) No. 14 — No. 15:*** ***Trouble code 27 / (F49) No. 7 — No. 8:***	Is the resistance between 1 and 1.5 kΩ?	Go to step **5.**	Repair harness/connector between ABSCM&H/U and ABS sensor.
5	**CHECK BATTERY SHORT OF HARNESS.** Measure voltage between ABSCM&H/U connector and chassis ground. ***Connector & terminal*** ***Trouble code 21 / (F49) No. 11 (+) — Chassis ground (–):*** ***Trouble code 23 / (F49) No. 9 (+) — Chassis ground (–):*** ***Trouble code 25 / (F49) No. 14 (+) — Chassis ground (–):*** ***Trouble code 27 / (F49) No. 7 (+) — Chassis ground (–):***	Is the voltage less than 1 V?	Go to step **6.**	Repair harness between ABSCM&H/U and ABS sensor.

DIAGNOSTICS CHART WITH DIAGNOSIS CONNECTOR

	Step	Check	Yes	No
6	**CHECK BATTERY SHORT OF HARNESS.** 1)Turn ignition switch to ON. 2)Measure voltage between ABSCM&H/U connector and chassis ground. ***Connector & terminal*** ***Trouble code 21 / (F49) No. 11 (+) — Chassis ground (–):*** ***Trouble code 23 / (F49) No. 9 (+) — Chassis ground (–):*** ***Trouble code 25 / (F49) No. 14 (+) — Chassis ground (–):*** ***Trouble code 27 / (F49) No. 7 (+) — Chassis ground (–):***	Is the voltage less than 1 V?	Go to step **7.**	Repair harness between ABSCM&H/U and ABS sensor.
7	**CHECK INSTALLATION OF ABS SENSOR.** Turn ignition switch to OFF. ***Tightening torque:*** ***32 N·m (3.3 kgf-m, 24 ft-lb)***	Are the ABS sensor installation bolts tightened securely?	Go to step **8.**	Tighten ABS sensor installation bolts securely.
8	**CHECK ABS SENSOR GAP.** Measure tone wheel to ABS sensor piece gap over entire perimeter of the wheel. ***Front wheel*** ***0.3 — 0.8 mm (0.012 — 0.031 in)*** ***Rear wheel*** ***0.7 — 1.2 mm (0.028 — 0.047 in)***	Is the gap within the specifications?	Go to step **9.**	Adjust the gap. NOTE: Adjust the gap using spacers (Part No. 26755AA000). If spacers cannot correct the gap, replace worn sensor or worn tone wheel.
9	**CHECK TONE WHEEL RUNOUT.** Measure tone wheel runout.	Is the runout less than 0.05 mm (0.0020 in)?	Go to step **10.**	Replace tone wheel. Front: <Ref. to ABS-20, Front Tone Wheel.> Rear: <Ref. to ABS-21, Rear Tone Wheel.>
10	**CHECK GROUND SHORT OF ABS SENSOR.** 1)Turn ignition switch to ON. 2)Measure resistance between ABS sensor and chassis ground. ***Terminal*** ***Front RH No. 1 — Chassis ground:*** ***Front LH No. 1 — Chassis ground:*** ***Rear RH No. 1 — Chassis ground:*** ***Rear LH No. 1 — Chassis ground:***	Is the resistance more than 1 MΩ?	Go to step **11.**	Replace ABS sensor and ABSCM&H/U. Front: <Ref. to ABS-14, Front ABS Sensor.> Rear: <Ref. to ABS-17, Rear ABS Sensor.> and <Ref. to ABS-7, ABS Control Module and Hydraulic Control Unit (ABSCM&H/U).>

	Step	Check	Yes	No
11	**CHECK GROUND SHORT OF HARNESS.** 1)Turn ignition switch to OFF. 2)Connect connector to ABS sensor. 3)Measure resistance between ABSCM&H/U connector terminal and chassis ground. ***Connector & terminal*** ***Trouble code 21 / (F49) No. 11 — Chassis ground:*** ***Trouble code 23 / (F49) No. 9 — Chassis ground:*** ***Trouble code 25 / (F49) No. 14 — Chassis ground:*** ***Trouble code 27 / (F49) No. 7 — Chassis ground:***	Is the resistance more than 1 MΩ?	Go to step **12.**	Repair harness between ABSCM&H/U and ABS sensor. Replace ABSCM&H/U. <Ref. to ABS-7, ABS Control Module and Hydraulic Control Unit (ABSCM&H/U).>
12	**CHECK POOR CONTACT IN CONNECTORS.**	Is there poor contact in connectors between ABSCM&H/U and ABS sensor?	Repair connector.	Go to step **13.**
13	**CHECK ABSCM&H/U.** 1)Connect all connectors. 2)Erase the memory. 3)Perform inspection mode. 4)Read out the trouble code.	Is the same trouble code as in the current diagnosis still being output?	Replace ABSCM&H/U. <Ref. to ABS-7, ABS Control Module and Hydraulic Control Unit (ABSCM&H/U).>	Go to step **14.**
14	**CHECK ANY OTHER TROUBLE CODES APPEARANCE.**	Are other trouble codes being output?	Proceed with the diagnosis corresponding to the trouble code.	A temporary poor contact. NOTE: Check harness and connectors between ABSCM&H/U and ABS sensor.